

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-7. (Canceled)

8. (Previously Presented) A method of treating a disorder characterized by angiogenesis or arteriogenesis comprising administering active antithrombin III to a patient in need thereof.

9. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the α isoform of antithrombin III, the β isoform of antithrombin III, a mixture of the two isoforms, or a concentrate of antithrombin III, is administered.

10. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the disorder is a retinopathy, neuropathy, or an infectious disease.

11. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the disorder is a cancer.

12. (Previously Presented) The method as claimed in claim 11, wherein the cancer is a cancerous ulcer or a metastasis of cancerous ulcer.

13. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the disorder is rheumatoid arthritis, psoriasis, endometriosis, chronic bronchitis, or a chronic inflammation of the gastrointestinal tract.

14. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the antithrombin III is prepared recombinantly or transgenically.

15. (Currently Amended) The method as claimed in ~~claim 7~~ or claim 8, wherein the antithrombin III is administered intravenously, subcutaneously, intramuscularly or topically.

16. (Previously Presented) The method as claimed in claim 10, wherein the infectious disease is leprosy.